

GenCore version 5.1.1.6

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OM protein - protein search, using sw model

Run on: August 9, 2003, 16:23:48 ; Search time 40.4571 Seconds

(without alignments)
102.055 Million cell updates/sec

Title: US-09-905-691-4

Perfect score: 16

Sequence: 1 ARRAARRARRARRA 16

Scoring table: OLIGO Gapop 60.0 , Gapext 60.0

Searched: 830525 segs, 258052604 residues

Word size : 0

Total number of hits satisfying chosen parameters: 830525

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database :

SPTREMBL_23:**
 1: sp_archaea:**
 2: sp_bacteria:**
 3: sp_fungi:**
 4: sp_human:**
 5: sp_invertebrate:**
 6: sp_mammal:**
 7: sp_mhc:**
 8: sp_organelle:**
 9: sp_phage:**
 10: sp_plant:**
 11: sp_rodent:**
 12: sp_virus:**
 13: sp_vertebrate:**
 14: sp_unclassified:**
 15: sp_virus:**
 16: sp_bacteriap:**
 17: sp_archaeap:**

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	10	62.5	406	10 Q94EV7	Q94ev7 zeia mays (m
2	9	56.2	105	2 P968D1	P968D1 mycobacteri
3	9	56.2	105	16 Q9CQ08	Q9CQ08 mycobacteri
4	9	56.2	190	16 P71658	P71658 mycobacteri
5	9	56.2	750	16 Q9KXP6	Q9KXP6 streptomyc
6	8	50.0	101	11 Q8BMV6	Q8BMV6 mus musculu
7	8	50.0	167	10 Q8SLJ9	Q8SLJ9 oryza sativ
8	8	50.0	200	2 Q9X696	Q9X696 streptomyc
9	8	50.0	204	12 Q65545	Q65545 bovine herp
10	8	50.0	274	10 Q8GZE4	Q8GZE4 pyrocystis
11	8	50.0	336	2 Q9X4X0	Q9X4X0 pseudomonas
12	8	50.0	356	7 Q31191	Q31191 mus musculu
13	8	50.0	383	16 Q914A1	Q914A1 pseudomonas
14	8	50.0	451	10 Q8SLI2	Q8SLI2 oryza sativ
15	8	50.0	710	16 Q8YER0	Q8YER0 bruceella me
16	8	50.0	820	16 Q98C41	Q98C41 rhizobium l

17	8	50.0	897	5	O60961	O60961 leishmania
18	8	50.0	998	16	Q9S2K3	Q9S2K3 streptomyc
19	7	43.8	69	16	Q8YUB7	Q8YUB7 anabaena sp
20	7	43.8	77	16	Q8Z368	Q8Z368 salmonella
21	7	43.8	79	16	Q8FJJ3	Q8FJJ3 escherichia
22	7	43.8	109	12	O11376	O11376 molluscum c
23	7	43.8	110	12	Q98316	Q98316 molluscum c
24	7	43.8	112	10	Q8H286	Q8H286 ananas como
25	7	43.8	126	16	Q8KBS4	Q8KBS4 chlorobium
26	7	43.8	132	16	Q8P9A4	Q8P9A4 xanthomonas
27	7	43.8	144	17	Q9YD73	Q9YD73 aeropyrum p
28	7	43.8	157	4	Q8N9D2	Q8N9D2 homo sapien
29	7	43.8	159	16	Q91OC1	Q91OC1 pseudomonas
30	7	43.8	161	4	Q8NH35	Q8NH35 homo sapien
31	7	43.8	174	16	Q9A3R0	Q9A3R0 caulobacter
32	7	43.8	178	10	Q8LHL2	Q8LHL2 oryza sativ
33	7	43.8	184	16	Q8FS32	Q8FS32 corynebacte
34	7	43.8	188	2	Q9R6M4	Q9R6M4 agrobacteri
35	7	43.8	193	4	Q8WY44	Q8WY44 homo sapien
36	7	43.8	204	5	Q9U6W9	Q9U6W9 manduca sex
37	7	43.8	206	16	Q8PKQ0	Q8PKQ0 xanthomonas
38	7	43.8	210	11	Q9D6J8	Q9D6J8 mus musculu
39	7	43.8	212	12	O11344	O11344 molluscum c
40	7	43.8	227	16	Q8PRF8	Q8PRF8 xanthomonas
41	7	43.8	232	16	Q8XRJ0	Q8XRJ0 raistonia s
42	7	43.8	234	16	Q8FWQ1	Q8FWQ1 bruceella su
43	7	43.8	251	10	Q8S6W0	Q8S6W0 oryza sativ
44	7	43.8	252	16	Q8YBM6	Q8YBM6 bruceella me
45	7	43.8	264	10	Q94J70	Q94J70 oryza sativ

ALIGNMENTS

RESULT 1

Q94EV7 ID Q94EV7 PRELIMINARY; PRT; 406 AA.
 AC Q94EV7;
 DT 01-DEC-2001 (TRENBLrel. 19, Created)
 DT 01-DEC-2001 (TRENBLrel. 19, Last sequence update)
 DT 01-MAR-2003 (TRENBLrel. 23, Last annotation update)
 DE MAP kinase kinase.
 GN MAPKK1.
 OS Zea mays (Maize).
 CC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
 CC Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;
 CC PACCAD clade; Panicoideae; Andropogoneae; Zea.
 OX NCBI_TaxID=4577;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC TRANSPONSON-Huckl;
 RA Fu H., Zheng Z., Dooner H.K.;
 RT "Large differences in recombination rates within adjacent gene-dense
 and retrotransposon regions of maize."
 RL Submitted (JUN-2001) to the EMBL/GenBank/DDBJ databases.
 CC -1- SIMILARITY: BELONGS TO THE SER/THR FAMILY OF PROTEIN KINASES.
 DR EMBL: AF391808; AAK73104.1;
 DR InterPro: IPR000719; Prot_kinase.
 DR InterPro: IPR002965; P-rich_extensn.
 DR InterPro: IPR002290; Ser_thr_kinase.
 DR InterPro: IPR001245; Tyr_kinase.
 DR Pfam: PF00069; Pkinase; I.
 DR PRINTS: PR01217; PRICHEXTENS.
 DR PRINTS: PR00109; TYRKINASE.
 DR ProDom: PD000001; Prot_kinase; 1.
 DR SMART: SM00220; S_TKc; 1.
 DR PROSITE: PS00107; PROTEIN_KINASE_ATP; 1.
 DR PROSITE: PS50011; PROTEIN_KINASE_DOM; 1.
 DR PROSITE: PS00108; PROTEIN_KINASE_ST; 1.
 DR ATP-Binding; Kinase; Serine/threonine-protein kinase; Transferase.
 SQ SEQUENCE 406 AA; 44664 MW; DBF1DB6568F47DF0 CRC64;

Query Match 62.5%; Score 10; DB 10; Length 406;

Best Local Similarity 100.0%; Pred. No. 1.5;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ARAAARAAAR 10
| | | | | | | | | |
DB 71 ARAAARAAAR 80

RESULT 2

P96802 PRELIMINARY; PRT; 105 AA.
ID P96802;
DT 01-MAY-1997 (TReMBLrel. 03, Created)
DT 01-MAY-1997 (TReMBLrel. 03, Last sequence update)
DT 01-DEC-2001 (TReMBLrel. 19, Last annotation update)
DE Integration host factor.
GN MIHF.
OS Mycobacterium smegmatis.
OC Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales;
OC Corynebacterineae; Mycobacteriaceae; Mycobacterium.
OX NCBI_TaxID=1772;
RN [1]
RP SEQUENCE FROM N.A.
RX Pedulla M.L., Lee M.H., Lever D.C., Hatfull G.F.;
RT "A novel host factor for integration of mycobacteriophage L5.";
RL Submitted (AUG-1998) to the EMBL/GenBank/DBJ databases.
DR EMBL; U75344; AAC28246.1;
SQ SEQUENCE 105 AA; 11635 MW; B73846DBFA6CA838 CRC64;

Query Match 56.2%; Score 9; DB 2; Length 105;

Best Local Similarity 100.0%; Pred. No. 2.9;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 7 AARARARAE 15
| | | | | | | | | |
DB 19 AARARARAE 27

RESULT 3

Q9CCQ8 PRELIMINARY; PRT; 105 AA.
ID Q9CCQ8;
AC Q9CCQ8;
DT 01-JUN-2001 (TReMBLrel. 17, Created)
DT 01-JUN-2001 (TReMBLrel. 17, Last sequence update)
DT 01-OCT-2001 (TReMBLrel. 18, Last annotation update)
DE Putative integration host factor.
GN MIHF OR ML0540.
OS Mycobacterium leprae.
OC Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales;
OC Corynebacterineae; Mycobacteriaceae; Mycobacterium.
OX NCBI_TaxID=1769;
RN [1]
RP SEQUENCE FROM N.A.
RX STRAIN=TN;
RC MEDLINE=21128732; PubMed=11234002;
RA Cole S.T., Eiglmeier K., Parkhill J., James K.D., Thomson N.R.,
RA Wheeler P.R., Honore N., Garnier T., Churcher C., Harris D.,
RA Mungall K., Basham D., Brown D., Chillingworth T., Connor R.,
RA Davies R.M., Devlin K., Duthoy S., Feltwell T., Fraser A., Hamlin N.,
RA Holroyd S., Hornsby T., Jagels K., Lacroix C., Maclean J., Moule S.,
RA Murphy L., Oliver K., Quail M.A., Rajandream M.A., Rutherford K.M.,
RA Rutter S., Seeger K., Simon S., Simmonds M., Skelton J., Squares R.,
RA Squares S., Stevens K., Taylor K., Whitehead S., Woodward J.R.,
RA Barrell B.G.;
RT "Massive gene decay in the leprosy bacillus.";
RL Nature 409:1007-1011(2001).
DR EMBL; AL583918; CAC30048.1;
DR Leproma; ML0540;
KW Complete proteome.
SQ SEQUENCE 105 AA; 11506 MW; BDCD218AEFF76238 CRC64;

Query Match 56.2%; Score 9; DB 16; Length 105;

Best Local Similarity 100.0%; Pred. No. 2.9;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 7 AARARARAE 15
| | | | | | | | | |
DB 19 AARARARAE 27

RESULT 4

P71658 PRELIMINARY; PRT; 190 AA.
ID P71658;
AC P71658;
DT 01-JAN-1998 (TReMBLrel. 05, Created)
DT 01-JAN-1998 (TReMBLrel. 05, Last sequence update)
DT 01-MAR-2002 (TReMBLrel. 20, Last annotation update)
DE Hypothetical protein Rv1388.
GN Rv1388 OR MT1433 OR MTCY21B4.05.
OS Mycobacterium tuberculosis.
OC Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales;
OC Corynebacterineae; Mycobacteriaceae; Mycobacterium.
OX NCBI_TaxID=1773;
RN [1]
RP SEQUENCE FROM N.A.
RX STRAIN=H37RV;
RC MEDLINE=9825987; PubMed=9634230;
RA Cole S.T., Brosch R., Parkhill J., Garnier T., Churcher C., Harris D.,
RA Gordon S.V., Eiglmeier K., Gas S., Barry C.E. III, Tekala F.,
RA Badcock K., Basham D., Brown D., Chillingworth T., Connor R.,
RA Davies R., Devlin K., Feltwell T., Gentles S., Hamlin N., Holroyd S.,
RA Hornsby T., Jagels K., Krogh A., McLean J., Moule S., Murphy L.,
RA Oliver S., Osborne J., Quail M.A., Rajandream M.A., Rogers J.,
RA Rutter S., Seeger K., Skelton S., Squares R.,
RA Sulston J.E., Taylor K., Whitehead S., Barrell B.G.;
RT "Deciphering the biology of Mycobacterium tuberculosis from the
RT complete genome sequence.";
RL Nature 393:537-544(1998).
RN [2]
RP SEQUENCE FROM N.A.
RX STRAIN=CDC 1551 / Oshkosh;
RC Fleischmann R.D., Alland D., Eisen J.A., Carpenter L., White O.,
RA Peterson J., DeBoy R., Dodson R., Gwinn M., Haft D., Hickey E.,
RA Kolonay J.F., Nelson W.C., Umayam L.A., Ermolaeva M., Salzberg S.L.,
RA Delcher A., Utterback T., Weidman J., Khouri H., Gill J., Mikula A.,
RA Bishai W.;
RT "Whole genome comparison of Mycobacterium tuberculosis clinical and
RT laboratory strains.";
RL Submitted (APR-2001) to the EMBL/GenBank/DBJ databases.
CC -!- SIMILARITY: STRONG, TO M.SMEGMATIS MIHF.
DR EMBL; Z80108; CAB02193.1;
DR EMBL; AE007015; AAK45698.1; ALT_INIT.
DR TIGR; MT1433;
DR Tuberculist; Rv1388;
KW Hypothetical protein; Complete proteome.
SQ SEQUENCE 190 AA; 20835 MW; 376672DCF96AF60D CRC64;

Query Match 56.2%; Score 9; DB 16; Length 190;

Best Local Similarity 100.0%; Pred. No. 4.6;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 7 AARARARAE 15
| | | | | | | | | |
DB 104 AARARARAE 112

RESULT 5

Q9KXP6 PRELIMINARY; PRT; 750 AA.
ID Q9KXP6;
AC Q9KXP6;
DT 01-OCT-2000 (TReMBLrel. 15, Created)
DT 01-OCT-2000 (TReMBLrel. 15, Last sequence update)
DT 01-MAR-2003 (TReMBLrel. 23, Last annotation update)
DE Hypothetical protein SC01504.
GN SC01504 OR SC9C5.28.
OS Streptomyces coelicolor.

OC Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales;
 OX Streptomycineae; Streptomycetaceae; Streptomycetes.

NCBI_TaxID=1902;
 [1]

SEQUENCE FROM N.A.

RC STRAIN-A3(2);

RL Brown S.P., Harris D.;

RA Submitted (JUN-2000) to the EMBL/GenBank/DBJ databases.

[2]

SEQUENCE FROM N.A.

RC STRAIN-A3(2);

RA Cerdano A.M., Parkhill J., Barrell B.G., Rajandream M.A.;

RL Submitted (JUN-2000) to the EMBL/GenBank/DBJ databases.

[3]

SEQUENCE FROM N.A.

RC STRAIN-A3(2);

RL MEDLINE=97000351; PubMed=8843436;

RA Redenbach M., Kieser H.M., Denapaita D., Eichner A., Cullum J.,

RL Kinashi H., Hopwood D.A.;

RT "A set of ordered cosmids and a detailed genetic and physical map for

the 8 Mb Streptomyces coelicolor A3(2) chromosome.";

[4]

SEQUENCE FROM N.A.

RC STRAIN-A3(2) / M145;

RL MEDLINE=21996410; PubMed=12000953;

RA Bentley S.D., Chater K.F., Cerdano-Tarraga A.-M., Challis G.L.,

RA Thomson N.R., James K.D., Harris D.E., Quail M.A., Kieser H.,

RA Harper D., Bateman A., Brown S., Chandra G., Chen C.W., Collins M.,

RA Cronin A., Fraser A., Goble A., Hidalgo J., Hornsby T., Howarth S.,

RA Huang C.-H., Kieser T., Larke L., Murphy L., Oliver K., O'Neill S.,

RA Rabinowitz E., Rajandream M.A., Rutherford K., Rutter S.,

RA Seeger K., Saunders D., Sharp S., Squares R., Squares S., Taylor K.,

RA Warren T., Wietzorrek A., Woodward J., Barrell B.G., Parkhill J.,

RA Hopwood D.A.;

RT "Complete genome sequence of the model actinomycete Streptomyces

coelicolor A3(2).";

RL Nature 417:141-147(2002).

DR EMBL; AL939109; CAB93384.1;

DR InterPro; IPR00767; Disease_Resist.

DR PRINTS; PR00364; DISEASERISIT.

KW Hypothetical protein; Complete proteome.

SQ SEQUENCE 750 AA; 81939 MW; 4695EF417EDC8862 CRC64;

Query Match

Best Local Similarity 56.2%; Score 9; DB 16; Length 750;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 AAAAAAARA 12

|||||

DB 76 AAAAAARA 84

RESULT 6

Q8BMV6

ID Q8BMV6 PRELIMINARY; PRT; 101 AA.

AC Q8BMV6

DT 01-MAR-2003 (TRENBLrel. 23, Created)

DT 01-MAR-2003 (TRENBLrel. 23, Last sequence update)

DT 01-MAR-2003 (TRENBLrel. 23, Last annotation update)

DE Hypothetical type I antifreeze protein containing protein

(fragment).

OS Mus musculus (Mouse).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

OX NCBI_TaxID=10090;

RN [1]

SEQUENCE FROM N.A.

RC STRAIN-C57BL/6J; TISSUE-Eye;

RX MEDLINE=22354683; PubMed=12466851;

RA The FANTOM Consortium,

RA The RIKEN Genome Exploration Research Group Phase I & II Team;

RT "Analysis of the mouse transcriptome based on functional annotation of

RT 60,770 full-length cDNAs.";
 RL Nature 420:563-573(2002).
 DR EMBL; AK021392; BAC25654.1;
 KW Hypothetical protein.
 FT NON_TER 1
 SQ SEQUENCE 101 AA; 10110 MW; CBDCDC2D530ABB15 CRC64;

Query Match

Best Local Similarity 50.0%; Score 8; DB 11; Length 101;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 RAARAAAR 10

|||||

DB 67 RAARAAAR 74

RESULT 7

Q8SLJ9

ID Q8SLJ9 PRELIMINARY; PRT; 167 AA.

AC Q8SLJ9

DT 01-JUN-2002 (TRENBLrel. 21, Created)

DT 01-JUN-2002 (TRENBLrel. 21, Last sequence update)

DT 01-OCT-2002 (TRENBLrel. 22, Last annotation update)

DE P0684C02.19 protein.

GN P0684C02.19

OS Oryza sativa (japonica cultivar-group).

OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;

OC Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;

OC Ehrhartoideae; Oryzaceae; Oryza.

OX NCBI_TaxID=39947;

[1]

RP SEQUENCE FROM N.A.

RC STRAIN=cv. Nipponbare;

RA Sasaki T., Matsumoto T., Yamamoto K.;

RT "Oryza sativa (japonica cultivar-group) genomic DNA, chromosome 1, PAC

clone:P0684C02.19";

RL Submitted (FEB-2001) to the EMBL/GenBank/DBJ databases.

DR EMBL; AP003290; BAB89063.1;

DR Gramene; Q8SLJ9;

SQ SEQUENCE 167 AA; 18542 MW; 0CA0040DFB49021B CRC64;

Query Match

Best Local Similarity 50.0%; Score 8; DB 10; Length 167;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 RAARAAA 9

|||||

DB 20 RAARAAA 27

RESULT 8

Q9X696

ID Q9X696 PRELIMINARY; PRT; 200 AA.

AC Q9X696

DT 01-NOV-1999 (TRENBLrel. 12, Created)

DT 01-NOV-1999 (TRENBLrel. 12, Last sequence update)

DT 01-JUN-2002 (TRENBLrel. 21, Last annotation update)

DE VDCB.

GN VDCB.

OS Streptomyces sp. (strain D7).

OC Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales;

OC Streptomycineae; Streptomycetaceae; Streptomycetes.

OX NCBI_TaxID=9742;

[1]

RP SEQUENCE FROM N.A.

RC STRAIN=D7;

RX MEDLINE=99445180; PubMed=10517592;

RA Chow K.T., Pope M.K., Davies J.;

RT "Characterization of a vanillic acid non-oxidative decarboxylation

gene cluster from Streptomyces sp. D7.";

RL Microbiology 145:2393-2403(1999).

DR EMBL; AF134589; AAD28781.1;

DR InterPro; IPR003382; Flavoprotein.

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us-09-905-691-4.0lig.rspt

DR InterPro: IPR004507; Ublx.
DR Pfam: PF02441; Flavoprotein; 1.
DR TIGRfam: TIGR00421; ublx; 1.
SQ SEQUENCE 200 AA; 21660 MW; 83D1B5C22C13CD3E CRC64;

Query Match 50.0%; Score 8; DB 2; Length 200;
Best Local Similarity 100.0%; Pred. No. 28; Indels 0; Gaps 0;
Matches 8; Conservative 0; Mismatches 0;

QY 3 RAARAAAR 10
Db 187 RAARAAAR 194

RESULT 9
ID Q65545 PRELIMINARY; PRT; 204 AA.
AC Q65545;
DT 01-NOV-1996 (TrEMBLrel. 01, Created)
DT 01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
DT 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)
DE UL3 protein.
GN UL3.
OS Bovine herpesvirus 1.
OC Viruses; dsDNA viruses, no RNA stage; Herpesviridae;
OC Alphaherpesvirinae; Varicellovirus.
OX NCBI_TaxID=10320;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN-Cooper;
RX MEDLINE=96036477; PubMed=7482276;
RA Khattar S.K., van Drunen Littel-van den Hurk S., Babiuk L.A.,
RT "Identification and transcriptional analysis of a 3'-coterminial gene
cluster containing UL1, UL2, UL3, and UL3.5 open reading frames of
Tikoo S.K.;
RT bovine herpesvirus-1.;
RL Virology 213:28-37(1995).
DR EMBL: U32173; AAC54557.1; -
DR InterPro: IPR005035; Herpes_UL3.
DR Pfam: PF03369; Herpes_UL3; 1.
DR PROSITE: PS00216; SUGAR_TRANSPORT_1; 1.
SQ SEQUENCE 204 AA; 21792 MW; 9292E6A8AA2CB8C6 CRC64;

Query Match 50.0%; Score 8; DB 12; Length 204;
Best Local Similarity 100.0%; Pred. No. 29; Indels 0; Gaps 0;
Matches 8; Conservative 0; Mismatches 0;

QY 3 RAARAAAR 10
Db 113 RAARAAAR 120

RESULT 10
ID Q8GZE4 PRELIMINARY; PRT; 274 AA.
AC Q8GZE4;
DT 01-MAR-2003 (TrEMBLrel. 23, Created)
DT 01-MAR-2003 (TrEMBLrel. 23, Last sequence update)
DT 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)
DE Chlorophyll A-C binding protein.
OS Pyrocystis lunula.
OC Eukaryota; Alveolata; Dinophyceae; Pyrocystales; Pyrocystis.
OX NCBI_TaxID=2972;
RN [1]
RP SEQUENCE FROM N.A.
RA Okamoto O.K., Hastings J.W.;
RT "Circadian oscillations in the transcriptome of dinoflagellate cells:
Towards the clock circuitry."
RL Submitted (APR-2002) to the EMBL/GenBank/DBJ databases.
DR EMBL: AF508261; AA014680.1; -
SQ SEQUENCE 274 AA; 28168 MW; B5F522A5D45AC8BA CRC64;

Query Match 50.0%; Score 8; DB 10; Length 274;
Best Local Similarity 100.0%; Pred. No. 37; Indels 0; Gaps 0;
Matches 8; Conservative 0; Mismatches 0;

QY 7 AAARRARA 14
Db 81 AAARRARA 88

RESULT 11
ID Q9X4X0 PRELIMINARY; PRT; 336 AA.
AC Q9X4X0;
DT 01-NOV-1999 (TrEMBLrel. 12, Created)
DT 01-NOV-1999 (TrEMBLrel. 12, Last sequence update)
DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
DE DITH.
GN DITH.
OS Pseudomonas abietaniphilla.
OC Bacteria; Proteobacteria; Gammaproteobacteria; Pseudomonadales;
OC Pseudomonadaceae; Pseudomonas.
OX NCBI_TaxID=89065;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN-BKME-9;
RA Mohn W.W., Wilson A.E., Bicho P., Moore E.R.B.;
RT "Physiological and phylogenetic Diversity of Bacteria Growing on Resin
Acids."
RL Syst. Appl. Microbiol. 0:0-0(1999).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN-BKME-9;
RX MEDLINE=99235742; PubMed=10217753;
RA Martin V.J., Mohn W.W.;
RT "A novel aromatic-ring-hydroxylating dioxygenase from the diterpenoid-
degrading bacterium Pseudomonas abietaniphila BKME-9."
RL EMBL: AF119621; AAD21070.1; -
DR InterPro: IPR002529; FAA_hydrolase.
DR Pfam: PF01557; FAA_hydrolase; 1.
SQ SEQUENCE 336 AA; 37494 MW; CD221163FB1B44FB CRC64;

Query Match 50.0%; Score 8; DB 2; Length 336;
Best Local Similarity 100.0%; Pred. No. 43; Indels 0; Gaps 0;
Matches 8; Conservative 0; Mismatches 0;

QY 7 AAARRARA 14
Db 105 AAARRARA 112

RESULT 12
ID Q31191 PRELIMINARY; PRT; 356 AA.
AC Q31191;
DT 01-NOV-1996 (TrEMBLrel. 01, Created)
DT 01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
DT 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)
DE MHC class I H2-K gene (Haplotype d) (Fragment).
GN H2-K.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=84170268; PubMed=6143316;
RA Lalanne J.-L., Cochet M., Kummer A.-M., Gachelin G., Kourilsky P.;
RT "Different exon-intron organization at the 5' part of a mouse class I
gene is used to generate a novel H-2Kd-related mRNA."
RL Proc. Natl. Acad. Sci. U.S.A. 80:7561-7565(1983).
CC -1- FUNCTION: INVOLVED IN THE PRESENTATION OF FOREIGN ANTIGENS TO THE
IMMUNE SYSTEM (BY SIMILARITY).

CC -1- SUBUNIT: DIMER OF ALPHA CHAIN AND A BETA CHAIN (BETA-2-MICROGLOBULIN) (BY SIMILARITY).

DR EMBL; K01182; AAA39563.1; -

DR HSSP; P01899; 1B23.

DR MGD; MGI:95904; H2-K.

DR InterPro; IPR007110; Ig-like.

DR InterPro; IPR003597; Ig_c1.

DR InterPro; IPR003006; Ig_MHC.

DR InterPro; IPR001039; MHC_I.

DR Pfam; PF00047; Ig; 1.

DR Pfam; PF00129; MHC_I; 1.

DR PRINTS; PR01638; MHCCLASSI.

DR ProDom; PD000050; MHC_I; 1.

DR SMART; SM00407; IGc1; 1.

DR PROSITE; PS00835; IG_LIKE; 1.

DR PROSITE; PS00290; IG_MHC; 1.

KW Glycoprotein; Transmembrane.

FT NON_TER 356

SQ SEQUENCE 356 AA; 39888 MW; 7BFB4957212B3F2D CRC64;

Query Match 50.0%; Score 8; DB 7; Length 356;

Best Local Similarity 100.0%; Pred. No. 45;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 RAARAAAR 10

Db 20 RAARAAAR 27

|||||

RESULT 13

Q914A1

ID Q914A1

AC Q914A1

DT 01-MAR-2001 (TRENBLrel. 16, Created)

DT 01-MAR-2001 (TRENBLrel. 16, Last sequence update)

DT 01-MAR-2001 (TRENBLrel. 23, Last annotation update)

DE Probable multidrug resistance efflux pump.

GN PAL237.

OS Pseudomonas aeruginosa.

OC Bacteria; Proteobacteria; Gammaproteobacteria; Pseudomonadales;

OC Pseudomonadaceae; Pseudomonas.

OX NCBI_TaxID=287;

RN [1]

RP SEQUENCE FROM N.A.

RC STRAIN=ATCC 15692 / PAO1;

RX MEDLINE=20437337; PubMed=10984043;

RA Stover C.K., Pham X.-Q.T., Erwin A.L., Mizoguchi S.D., Warren P.,

RA Hickey M.J., Brinkman F.S.L., Hufnagle W.O., Kowalik D.J., Lagrou M.,

RA Garber R.L., Goltzy L., Tolentino E., Westbrook-Wadman S., Yuan Y.,

RA Brody L.L., Coulter S.N., Folger K.R., Kas A., Larbig K., Lim R.M.,

RA Smith K.A., Spencer D.H., Wong G.K.-S., Wu Z., Paulsen I.T.,

RA Reizer J., Sailer M.H., Hancock R.E.W., Lory S., Olson M.V.,

RT "Complete genome sequence of Pseudomonas aeruginosa PAO1, an

RT opportunistic pathogen."

RL Nature 406:959-964(2000).

DR EMBL; AE004553; AAG04626.1; -

DR InterPro; IPR006143; HlyD.

DR InterPro; IPR003997; RtdX.

DR Pfam; PF00529; HlyD; 1.

DR PRINTS; PR01490; RTXTOXIND.

KW Complete proteome.

SQ SEQUENCE 383 AA; 42550 MW; 8DE3B490DD83C9B1 CRC64;

Query Match 50.0%; Score 8; DB 16; Length 383;

Best Local Similarity 100.0%; Pred. No. 48;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 ARAAARA 12

Db 187 ARAAARA 194

|||||

RESULT 14

QY 4 ARAAARR 11

Db 237 ARAAARR 244

|||||

Query Match 50.0%; Score 8; DB 10; Length 451;

Best Local Similarity 100.0%; Pred. No. 55;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 RRAAARA 9

Db 237 RRAAARA 244

|||||

Query Match 50.0%; Score 8; DB 10; Length 451;

Best Local Similarity 100.0%; Pred. No. 55;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 RRAAARA 9

Db 237 RRAAARA 244

|||||

Query Match 50.0%; Score 8; DB 10; Length 451;

Best Local Similarity 100.0%; Pred. No. 55;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 RRAAARA 9

Db 237 RRAAARA 244

|||||

Query Match 50.0%; Score 8; DB 10; Length 451;

Best Local Similarity 100.0%; Pred. No. 55;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 RRAAARA 9

Db 237 RRAAARA 244

|||||

Query Match 50.0%; Score 8; DB 10; Length 451;

Best Local Similarity 100.0%; Pred. No. 55;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 RRAAARA 9

Db 237 RRAAARA 244

|||||

Query Match 50.0%; Score 8; DB 10; Length 451;

Best Local Similarity 100.0%; Pred. No. 55;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 RRAAARA 9

Db 237 RRAAARA 244

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Query Match 50.0%; Score 8; DB 10; Length 451;

Best Local Similarity 100.0%; Pred. No. 55;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 RRAAARA 9

Db 237 RRAAARA 244

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Query Match 50.0%; Score 8; DB 10; Length 451;

Best Local Similarity 100.0%; Pred. No. 55;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 RRAAARA 9

Db 237 RRAAARA 244

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Query Match 50.0%; Score 8; DB 10; Length 451;

Best Local Similarity 100.0%; Pred. No. 55;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 RRAAARA 9

Db 237 RRAAARA 244

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Query Match 50.0%; Score 8; DB 10; Length 451;

Best Local Similarity 100.0%; Pred. No. 55;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 RRAAARA 9

Db 237 RRAAARA 244

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Query Match 50.0%; Score 8; DB 10; Length 451;

Best Local Similarity 100.0%; Pred. No. 55;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 RRAAARA 9

Db 237 RRAAARA 244

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Query Match 50.0%; Score 8; DB 10; Length 451;

Best Local Similarity 100.0%; Pred. No. 55;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 RRAAARA 9

Db 237 RRAAARA 244

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Query Match 50.0%; Score 8; DB 10; Length 451;

Best Local Similarity 100.0%; Pred. No. 55;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 RRAAARA 9

Db 237 RRAAARA 244

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Query Match 50.0%; Score 8; DB 10; Length 451;

Best Local Similarity 100.0%; Pred. No. 55;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 RRAAARA 9

Db 237 RRAAARA 244

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Query Match 50.0%; Score 8; DB 10; Length 451;

Best Local Similarity 100.0%; Pred. No. 55;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 237 RRAAARA 244

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Query Match 50.0%; Score 8; DB 10; Length 451;

Best Local Similarity 100.0%; Pred. No. 55;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 RRAAARA 9

Db 237 RRAAARA 244

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Query Match 50.0%; Score 8; DB 10; Length 451;

Best Local Similarity 100.0%; Pred. No. 55;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 RRAAARA 9

Db 237 RRAAARA 244

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Query Match 50.0%; Score 8; DB 10; Length 451;

Best Local Similarity 100.0%; Pred. No. 55;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 RRAAARA 9

Db 237 RRAAARA 244

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Query Match 50.0%; Score 8; DB 10; Length 451;

Best Local Similarity 100.0%; Pred. No. 55;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 RRAAARA 9

Db 237 RRAAARA 244

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Query Match 50.0%; Score 8; DB 10; Length 451;

Best Local Similarity 100.0%; Pred. No. 55;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 RRAAARA 9

Db 237 RRAAARA 244

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Query Match 50.0%; Score 8; DB 10; Length 451;

Best Local Similarity 100.0%; Pred. No. 55;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 RRAAARA 9

Db 237 RRAAARA 244

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Query Match 50.0%; Score 8; DB 10; Length 451;

Best Local Similarity 100.0%; Pred. No. 55;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 RRAAARA 9

Db 237 RRAAARA 244

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Query Match 50.0%; Score 8; DB 10; Length 451;

Best Local Similarity 100.0%; Pred. No. 55;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 RRAAARA 9

Db 237 RRAAARA 244

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Query Match 50.0%; Score 8; DB 10; Length 451;

Best Local Similarity 100.0%; Pred. No. 55;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 RRAAARA 9

Db 237 RRAAARA 244

|||||

Query Match 50.0%; Score 8; DB 10; Length 451;

Best Local Similarity 100.0%; Pred. No. 55;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 RRAAARA 9

Db 237 RRAAARA 244

|||||

Query Match 50.0%; Score 8; DB 10; Length 451;

Best Local Similarity 100.0%; Pred. No. 55;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 RRAAARA 9

Db 237 RRAAARA 244

|||||

Query Match 50.0%; Score 8; DB 10; Length 451;

Best Local Similarity 100.0%; Pred. No. 55;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 RRAAARA 9

Db 237 RRAAARA 244

|||||

Query Match 50.0%; Score 8; DB 10; Length 451;

Best Local Similarity 100.0%; Pred. No. 55;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 RRAAARA 9

Db 237 RRAAARA 244

|||||

Query Match 50.0%; Score 8

Db 156 AAAAAARR 163

Search completed: August 9, 2003, 16:32:58
Job time : 41.4571 secs